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National Center for Chronic Disease Prevention and Health Promotion

Diabetes Indicators and Data Source Internet Tool

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United States Department of Health and Human Services
Centers for Disease Control and Prevention
National Center for Chronic Disease Prevention and Health Promotion

INDICATOR A1c Level

CATEGORY Secondary Prevention for Persons with

Diabetes

GENERAL DEFINITION The percentage of persons with diabetes who have an HbA1c level that indicates

poor glucose control.

RATIONALE Glycemic control is essential for preventing diabetes-related complications. A1c

exams provide information on blood sugar levels over the prior 2-3 months. This process indicator provides information about the quality of diabetes care provided

and/or diabetes self-management.

ORGANIZATION(S)
RECOMMENDING THE

Health Disparities Collaboratives

Indian Health Service

National Diabetes Quality Improvement Alliance (formerly DQIP)

NCQA

DDT NATIONAL OBJECTIVE

INDICATOR

This indicator does not directly link to any of the 7 national objectives.

HP 2010 OBJECTIVE This indicator is not directly linked with an HP 2010 objective.

STANDARDS OF CARE • American Diabetes Association

 National Quality Forum, National Voluntary Consensus Standards for Adult Diabetes Care. Available from: The National Quality Forum, A601 Thirteenth Street, NW, Suite 500 North, Washington, DC 20005; Tel: 202.783.1300.

DATA SUMMARY

• J.B. Saaddine, M.M. Engelgau, G.L. Beckles, E.W. Gregg, T.J. Thompson, and K.M.V. Narayan. (2001). A Diabetes Report Card for the United States: Quality

of Care in the 1990s. Annals of Internal Medicine, 136(8): 565-574.

RELATED LINKS • American Diabetes Association: A1c test

(http://www.diabetes.org/main/type1/medical/blood_sugar/glyc_hemoglobin.jsp)

Guide to Community Preventive Services

(http://www.cdc.gov/diabetes/projects/community.htm)

•National Diabetes Education Program - Check Your Hemoglobin A1c I.Q. (http://ndep.nih.gov/materials/pubs/HbA1c/HbA1c-checkIQ.htm)

•The Diabetes Control and Complications Trial Research Group. (1993). The Effect of Intensive Treatment of Diabetes on the Development and Progression of Long-Term Complications in Insulin-Dependent Diabetes Mellitus. New England Journal

of Medicine, 329(14): 977-986.

(http://content.nejm.org/cgi/content/full/329/14/977?ijkey=u.d9c1Au9cpxs)

•The National Glycohemoglobin Standardization Program (http://www.missouri.edu/~diabetes/ngsp.html)

INDICATOR A1c Test

CATEGORY Secondary Prevention for Persons with

Diabetes

GENERAL DEFINITION The percentage of persons with diabetes who have had at least two A1c tests

during the past year.

RATIONALE Glycemic control is essential for preventing diabetes-related complications. A1c

exams provide information on blood sugar levels over the prior 2-3 months. This process indicator provides information about the quality of diabetes care provided.

ORGANIZATION(S)
RECOMMENDING THE

Health Disparities Collaboratives

INDICATOR Indian Health Service

National Diabetes Quality Improvement Alliance (formerly DQIP)

NCQA

CDC

DDT NATIONAL OBJECTIVE

This indicator links to the Division of Diabetes Translation (DDT) National Objective to increase the percentage of persons with diagnosed diabetes who

receive A1c tests.

HP 2010 OBJECTIVE Objective 5-12: To increase the proportion of adults with diabetes who have at

least two glycosylated hemoglobin measurements during the year.

BASELINE Fifty-nine percent of adults aged 18 years and older with

diabetes had at least two glycosylated hemoglobin measurements during the year, (BRFSS, age-adjusted,

2000).

TARGET Fifty percent of adults aged 18 years and older with

diabetes having at least two glycosylated hemoglobin

measurements during the year.

STANDARDS OF CARE

· American Diabetes Association

 National Quality Forum, National Voluntary Consensus Standards for Adult Diabetes Care. Available from: The National Quality Forum, A601 Thirteenth Street, NW, Suite 500 North, Washington, DC 20005; Tel: 202.783.1300.

 Use of Glycated Hemoglobin and Microalbuminuria in the Monitoring of Diabetes Mellitus. Summary, Evidence Report/Technology Assessment: Number 84. AHRQ Publication No. 03-E048, July 2003. Agency for Healthcare Research and Quality, Rockville, MD.

DATA SUMMARY

Diabetes Surveillance System

 J.B. Saaddine, M.M. Engelgau, G.L. Beckles, E.W. Gregg, T.J. Thompson, and K.M.V. Narayan. (2001). A Diabetes Report Card for the United States: Quality

of Care in the 1990s. Annals of Internal Medicine, 136(8): 565-574.

· Medicare Health Plan Compare

RELATED LINKS

American Diabetes Association: A1c test

(http://www.diabetes.org/main/type1/medical/blood_sugar/glyc_hemoglobin.jsp)

•Guide to Community Preventive Services

(http://www.cdc.gov/diabetes/projects/community.htm)

•Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

•National Diabetes Education Program - Check Your Hemoglobin A1c I.Q. (http://ndep.nih.gov/materials/pubs/HbA1c/HbA1c-checkIQ.htm)

•The National Glycohemoglobin Standardization Program (http://www.missouri.edu/~diabetes/ngsp.html)

INDICATOR Aspirin Therapy

CATEGORY Secondary Prevention for Persons with

Diabetes

GENERAL DEFINITION The percentage of persons with diabetes who take aspirin at a

specified frequency.

RATIONALE Cardiovascular disease is the leading cause of diabetes-related

deaths. People with diabetes have a two- to fourfold increase in the risk of dying from the complications of cardiovascular disease. Aspirin has been found to block the mechanisms which increase risk for cardiovascular events. Aspirin is recommended as a primary and secondary strategy to prevent cardiovascular events in individuals with and without diabetes, if no

contraindications exist. This process measure reflects the quality

of diabetes care and/or diabetes self-management.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

Health Disparities Collaboratives

Indian Health Service

National Diabetes Quality Improvement Alliance

DDT NATIONAL OBJECTIVEThis indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE Objective 5-16: To increase the proportion of adults with

diabetes who take aspirin at least 15 times per month.

BASELINE Twenty percent of adults aged 40 years and

older with diabetes took aspirin at least 15 times per month (NHANES, age-adjusted,

1988-1994).

TARGET Thirty percent of adults aged 40 years and

older with diabetes take aspirin at least 15

times per month.

STANDARDS OF CARE • American Diabetes Association

DATA SUMMARY • Prevalence of Aspirin Use to Prevent Heart Disease --

Wisconsin, 1991, and Michigan, 1994

 Strategies for Reducing Morbidity and Mortality from Diabetes Through Health-Care System Interventions and Diabetes Self-

Management Education in Community Settings

RELATED LINKS • American College of Cardiology

(http://www.acc.org/)
• Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

 National Heart, Lung, and Blood Institute (http://www.nhlbi.nih.gov/index.htm)

INDICATOR Blood Pressure Level

CATEGORY

Secondary Prevention for Persons with

Diabetes

GENERAL DEFINITION

The percentage of persons with diabetes who have systolic and diastolic blood pressure values indicating a certain level of control as defined by the user.

RATIONALE

Persons with diabetes are at increased risk of complications from cardiovascular disease (CVD), such as hypertension. CVD is the leading cause of death for people with diabetes. Early detection of elevated blood pressure levels and appropriate treatment can decrease risk for both macrovascular and microvascular complications. This process measure provides information about the quality of diabetes care and/or diabetes self-management.

ORGANIZATION(S) RECOMMENDING THE **INDICATOR**

Health Disparities Collaboratives Indian Health Service National Diabetes Quality Improvement Alliance (formerly DQIP)

DDT NATIONAL OBJECTIVE

This indicator links to the Division of Diabetes Translation (DDT) National Objective to succeed in establishing linkages for promotion of wellness, physical activity, weight and blood pressure control and smoking cessation for persons with diabetes.

HP 2010 OBJECTIVE

Objective 12-9: Reduce the proportion of adults with high blood pressure.

BASELINE Forty-one percent of persons 20 years or

older with diabetes had high blood pressure (NHANES, age-adjusted, 1998-94).

TARGET Sixteen percent of persons 20 years or older

with diabetes have high blood pressure.

Objective 12-10: Increase the proportion of adults with high blood pressure whose blood pressure is under control.

BASELINE

Fifty-one percent of persons age 18 or older with diabetes and high blood pressure had blood pressure under control (NHANES, age-

adjusted, 1998-94).

TARGET Fifty percent of persons 18 or older with

diabetes and high blood pressure who have

blood pressure under control.

STANDARDS OF CARE

- American Diabetes Association
- American Heart Association
- National Quality Forum, National Voluntary Consensus Standards for Adult Diabetes Care. Available from: The National Quality Forum, A601 Thirteenth Street, NW, Suite 500 North, Washington, DC 20005; Tel: 202.783.1300.
- The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (JNC 7)

DATA SUMMARY

· Geiss LS, Rolka DP, Engelgau MM. (2002). Elevated blood pressure among U.S. adults with diabetes, 1988-1994.

American Journal of Preventive Medicine, 22(1):42-8.

• J.B. Saaddine, M.M. Engelgau, G.L. Beckles, E.W. Gregg, T.J. Thompson, and K.M.V. Narayan. (2001). A Diabetes Report Card for the United States: Quality of Care in the 1990s. Annals of Internal Medicine, 136(8): 565-574.

RELATED LINKS

- Healthy People 2010
- (http://wonder.cdc.gov/data2010/focus.htm)
- Hypertension Online (Baylor College of Medicine)
- (http://www.hypertensiononline.org/)
- National High Blood Pressure Education Program (NHBPEP) of the National Heart, Lung, and Blood Institute (NHLBI) of NIH (www.nhlbi.nih.gov/about/nhbpep/index.htm)

LAST UPDATED

Cardiovascular Death in Persons with INDICATOR

Diabetes

CATEGORY Diabetes-related Mortality

GENERAL DEFINITION The number of persons with diabetes who die from

cardiovascular causes during a specified time period.

RATIONALE Cardiovascular disease is the leading cause of diabetes-related

deaths. This outcome measure is valuable to track the burden of

heart disease upon the population of persons with diabetes.

ORGANIZATION(S) RECOMMENDING THE

INDICATOR

CDC

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE Objective 5-7: To reduce deaths from cardiovascular disease in

persons with diabetes.

332 deaths from cardiovascular disease per **BASELINE**

100,000 persons with diabetes (NVSS, age-

adjusted, 1999)

TARGET 309 deaths from cardiovascular per 100,000

persons with diabetes.

STANDARDS OF CARE • N/A

DATA SUMMARY · Diabetes Surveillance Report, 1999

• Muhlestein et. al. (2003). Effect of fasting glucose levels on mortality rate in patients with and without diabetes mellitus and coronary artery disease undergoing percutaneous coronary

intervention. Am Heart J, 146:351-358.

RELATED LINKS American Heart Association

(http://www.americanheart.org)

• Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

· National Vital Statistics System (http://www.cdc.gov/nchs/nvss.htm)

INDICATOR Cholesterol Tested

CATEGORY Secondary Prevention for Persons with

Diabetes

GENERAL DEFINITION

The percentage of adults with diabetes who have had a lipid profile completed or report having their cholesterol measured during a specified time period. A lipid profile measures LDL, HDL, and triglycerides.

RATIONALE

Persons with diabetes are at increased risk of complications from cardiovascular disease, such as stroke, angina, and congestive heart failure. Early detection of elevated lipid levels and appropriate treatment can decrease risk for cardiovascular complications. This process measure may provide information about the quality of diabetes care provided and/or diabetes self-management behavior.

ORGANIZATION(S)
RECOMMENDING THE
INDICATOR

 CDC

Indian Health Service

National Diabetes Quality Improvement Alliance (formerly DQIP)

NCQA

DDT NATIONAL OBJECTIVE

This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE

Objective 12-15: To increase the proportion of adults who have had their blood cholesterol checked within the preceding 5 years.

BASELINE Sixty-seven percent of adults aged 18 years

and older who report that they had their blood cholesterol tested within the preceding

5 years (NHIS, age-adjusted, 1998).

TARGET Eighty percent of adults aged 18 years and

older having their blood cholesterol tested

within the preceding 5 years.

STANDARDS OF CARE

- Agency for Healthcare Research and Quality
- American Diabetes Association
- American Heart Association
- Guide to Community Preventive Services
- National Quality Forum, National Voluntary Consensus Standards for Adult Diabetes Care. Available from: The National Quality Forum, A601 Thirteenth Street, NW, Suite 500 North, Washington, DC 20005; Tel: 202.783.1300.
- Third Report of the Expert Panel on Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel III) Executive Summary

DATA SUMMARY

- Harwell TS, Moore K, Madison M, Powell-Taylor D, Lundgren P, Smilie JG, Acton KJ, Helgerson SD, Gohdes D. (2001).
 Comparing self-reported measures of diabetes care with similar measures from a chart audit in a well-defined population.
 American Journal of Medical Quality, 16(1): 3-8.
- J.B. Saaddine, M.M. Engelgau, G.L. Beckles, E.W. Gregg, T.J. Thompson, and K.M.V. Narayan. (2001). A Diabetes Report Card for the United States: Quality of Care in the 1990s. Annals of Internal Medicine, 136(8): 565-574.
- State-Specific Cholesterol Screening Trends --- United States, 1991--1999

RELATED LINKS

Guide to Community Preventive Services (http://www.cdc.gov/diabetes/projects/community.htm)
Healthy People 2010 (http://wonder.cdc.gov/data2010/focus.htm)
Lipids Online (Baylor College of Medicine) (http://www.lipidsonline.org/)

INDICATOR Dental Exam

CATEGORY Secondary Prevention for Persons with

Diabetes

GENERAL DEFINITION The percentage of persons with diabetes who have had a dental

exam during a specified time period.

RATIONALE Persons with poorly controlled diabetes are at an increased risk

of periodontal disease. Annual dental exams help to ensure that periodontal disease is prevented, or at a minimum, identified early and treated before permanent damage, such as tooth loss, occurs. Periodontal disease is associated with heart disease and

stroke.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

Health Disparities Collaboratives

Indian Health Service

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE Objective 5-15: To increase the proportion of persons with

diabetes who have at least an annual dental exam.

BASELINE Fifty-six percent of persons age 2 years and

older with diabetes saw a dentist at least once within the past year (NHIS, age-

adjusted, 1997).

TARGET Seventy-five percent of persons age 2 years

and older with diabetes see a dentist at least

once within the past year.

STANDARDS OF CARE • American Dental Association

American Diabetes Association

DATA SUMMARY • Katz, PP, Wirthlin, MR, Szpunar, SM, Selby, JV, Sepe, SJ and

Showstack, JA. (1992). Epidemiology and prevention of periodontal disease in people with diabetes. Diabetes Care 15

(5): 375-385.

RELATED LINKS • Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

INDICATOR Diabetes Care Related Office Visit to Your

Health Professional

CATEGORY Secondary Prevention for Persons with

Diabetes

GENERAL DEFINITION The percentage of persons with diabetes who have had a

diabetes-related visit to a health care professional during a

specified time period.

RATIONALE Persons with diabetes are at increased risk for a large number of

health problems. Routine visits to a health professional provide an opportunity to evaluate the need for medications, medical procedures, and alterations in patient behavior necessary to maintain the health of diabetic persons. These visits are important so that complications of diabetes can be detected and treated before they become serious and possibly irreversible. This process measure provides information about the quality of

diabetes care.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

DDT NATIONAL OBJECTIVEThis indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVEThis indicator is not directly linked with an HP 2010 objective.

STANDARDS OF CARE • American Diabetes Association

 National Quality Forum, National Voluntary Consensus Standards for Adult Diabetes Care. Available from: The National

Quality Forum, A601 Thirteenth Street, NW, Suite 500 North,

Washington, DC 20005; Tel: 202.783.1300.

DATA SUMMARY • Diabetes Surveillance System

RELATED LINKS

INDICATOR Diabetes Education

CATEGORY Diabetes Patient Education

GENERAL DEFINITION The percentage of persons with diabetes who have ever taken a

course or class in how to manage their diabetes.

RATIONALE Self-management is critical to the effective management of

diabetes and prevention of complications. This process measure provides information about the number of persons with diabetes who have taken a course in diabetes self-management in a

jurisdiction.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

Indian Health Service

DDT NATIONAL OBJECTIVE This indicator is indirectly related to the Division of Diabetes

Translation (DDT) National Objectives to increase the percentage of persons with diabetes who receive recommended foot exams, eye exams, influenza and pneumococcal vaccines, A1c tests, and promotion of wellness, physical activity, weight and blood

pressure control, and smoking cessation.

HP 2010 OBJECTIVEObjective 5-1: To increase the proportion of people with diabetes

who receive formal diabetes education.

BASELINE Forty-five percent of persons with diabetes

received formal diabetes education (NHIS,

age-adjusted, 1998).

TARGET Sixty percent of persons with diabetes

receiving formal diabetes education.

STANDARDS OF CARE • American Diabetes Association

DATA SUMMARY

RELATED LINKS • American Association of Diabetes Educators

(http://www.aadenet.org)
• Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

INDICATOR Diabetes-related Hospitalizations
CATEGORY Diabetes-related Complications

GENERAL DEFINITION The number and rate of hospitalizations for diabetes and

diabetes-related causes.

RATIONALE People with diabetes are at greater risk of hospitalization due to

complications such as diabetic ketoacidosis, lower extremity amputation, end-stage renal disease, and cardiovascular disease. This outcome measure assesses the incidence and/or

prevalence of diabetes related hospitalizations.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

CSTE Chronic Disease Indicators

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives

HP 2010 OBJECTIVE This indicator is not directly linked with an HP 2010 objective.

STANDARDS OF CARE • American Diabetes Association

DATA SUMMARY • 2000 National Hospital Discharge Survey

• Diabetes Surveillance System

• Jiang, HJ, Stryer D, Friedman B, & Andrews R. (2003). Multiple hospitalizations for patients with diabetes. Diabetes Care, 26

(5), 1421-6.

RELATED LINKS

• Council of State and Territorial Epidemiologists - Chronic

Disease Indicators (CDI)

(http://www.cste.org/position%20statements/02-CD.MCH.OH-

02.pdf)

Diabetes Surveillance System

(http://www.cdc.gov/diabetes/statistics/index.htm)

INDICATOR Diabetes-related Mortality
CATEGORY Diabetes-related Mortality

GENERAL DEFINITION Number of deaths during a specified t

Number of deaths during a specified time period with diabetes as

an underlying or contributing cause of death.

RATIONALE In 1999, diabetes was listed as the underlying or contributory

cause of death for almost 210,000 deaths. Diabetes may be under-reported on as many as 40 percent of all death certificates. Therefore, it is important to consider all listed causes when studying diabetes deaths. This outcome measure is valuable to track the burden of diabetes upon the population.

ORGANIZATION(S)
RECOMMENDING THE
INDICATOR

CDC

CSTE Chronic Disease Indicators

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE Objective 5-5: To reduce the diabetes death rate.

BASELINE Objective 5-5: 77 deaths per 100,000

population (NVSS, age-adjusted, 1999)

TARGET Objective 5-5: 45 deaths per 100,000

population

Objective 5-6: To reduce diabetes-related deaths among persons with diabetes.

BASELINE Objective 5-6: 8.8 deaths per 1,000 persons

with diabetes listed anywhere on the death certificate (NVSS, age-adjusted, 1999).

TARGET Objective 5-6: 7.8 deaths per 1,000 persons

with diabetes listed anywhere on the death

certificate.

STANDARDS OF CARE • N/A

DATA SUMMARY • Diabetes Surveillance System

 Mortality Data from the National Vital Statistics System Progress in Chronic Disease Prevention Chronic Disease Reports: Deaths from Diabetes -- United States, 1986

RELATED LINKS • Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

 National Vital Statistics System (http://www.cdc.gov/nchs/nvss.htm)

INDICATOR Dilated Eye Exam

CATEGORY Secondary Prevention for Persons with

Diabetes

GENERAL DEFINITION The percentage of persons with diabetes who have had a dilated

eye exam during a specified time period.

RATIONALE Diabetes is the leading cause of blindness among working age

adults. Early detection through eye exams and appropriate treatment can substantially reduce blindness among people with

diabetes.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC CSTE Chronic Disease Indicators Health Disparities Collaboratives

Indian Health Service

National Diabetes Quality Improvement Alliance (formerly DQIP)

NCQA

DDT NATIONAL OBJECTIVE This indicator links to the Division of Diabetes Translation (DDT)

National Objective to increase the percentage of persons with diagnosed diabetes who receive the recommended eye exams.

HP 2010 OBJECTIVE Objective 5-13: To increase the proportion of adults with

diabetes who have at least an annual dilated eye examination.

BASELINE Forty-nine percent of adults with diabetes

who had at least an annual dilated eye exam

(NHIS, age-adjusted, 1998).

TARGET Seventy-five percent of adults aged 18 years

and older with diabetes having a dilated eye

exam at least once a year.

STANDARDS OF CARE

American Diabetes Association

 National Quality Forum, National Voluntary Consensus Standards for Adult Diabetes Care. Available from: The National Quality Forum, A601 Thirteenth Street, NW, Suite 500 North,

Washington, DC 20005; Tel: 202.783.1300.

 Perspectives in Disease Prevention and Health Promotion Guidelines for Diabetic Eye Disease Control -- Kentucky

DATA SUMMARY

Diabetes Surveillance System

 Harwell TS, Moore K, Madison M, Powell-Taylor D, Lundgren P, Smilie JG, Acton KJ, Helgerson SD, Gohdes D. (2001).

Comparing self-reported measures of diabetes care with similar

measures from a chart audit in a well-defined population.

American Journal of Medical Quality, 16(1): 3-8.

 J.B. Saaddine, M.M. Engelgau, G.L. Beckles, E.W. Gregg, T.J. Thompson, and K.M.V. Narayan. (2001). A Diabetes Report Card for the United States: Quality of Care in the 1990s. Annals

of Internal Medicine, 136(8): 565-574.

 Levels of Diabetes-Related Preventive-Care Practices --- United States, 1997--1999

Medicare Health Plan Compare

Quality of Medical Care Delivered to Medicare Beneficiaries

RELATED LINKS

American Academy of Ophthalmology

(http://www.aao.org)

American Optometric Association

(http://www.aoanet.org)

- Guide to Community Preventive Services (http://www.cdc.gov/diabetes/projects/community.htm)
- Healthy People 2010 (http://wonder.cdc.gov/data2010/focus.htm)
- Healthy Vision 2010 (http://www.healthyvision2010.org/exams/dee.htm)
- National Eye Institute (http://www.nei.nih.gov)

LAST UPDATED

INDICATOR Flu Vaccination

CATEGORY Secondary Prevention for Persons with

Diabetes

GENERAL DEFINITION The percentage of persons with diabetes who have had an

influenza vaccination during a specified time period.

RATIONALE

Persons with diabetes are at increased risk of hospitalization, morbidity, and mortality associated with influenza. Influenza

vaccination has the potential to improve morbidity and mortality outcomes among persons with diabetes. This process indicator provides information about the quality of diabetes care provided.

ORGANIZATION(S)
RECOMMENDING THE
INDICATOR

CDC

CSTE Chronic Disease Indicators Health Disparities Collaboratives

Indian Health Service

DDT NATIONAL OBJECTIVE This indicator links to the Division of Diabetes Translation (DDT)

National Objective to increase the percentage of persons with diagnosed diabetes who receive the recommended influenza

vaccine.

HP 2010 OBJECTIVE Objective 14-29: To increase the proportion of non-

institutionalized adults who are vaccinated annually against

influenza.

BASELINE Sixty-six percent of non-institutionalized

adults aged 65 years and older with diabetes. Thirty-six percent of non-institutionalized adults aged 18-64 years with diabetes,

(NHIS, 1998)

TARGET Ninety percent of non-institutionalized adults

aged 65 years and older. Sixty-percent of non-institutionalized high-risk adults aged

18-64 years old.

STANDARDS OF CARE • American College of Physicians

American Diabetes Association

National Coalition for Adult Immunization

National Network for Immunization Information (NNII)
National Quality Forum, National Voluntary Consensus

Standards for Adult Diabetes Care. Available from: The National

Quality Forum, A601 Thirteenth Street, NW, Suite 500 North,

Washington, DC 20005; Tel: 202.783.1300.

DATA SUMMARY • Diabetes Surveillance System - Chapter 10

· Harwell TS, Moore K, Madison M, Powell-Taylor D, Lundgren P,

Smilie JG, Acton KJ, Helgerson SD, Gohdes D. (2001).

Comparing self-reported measures of diabetes care with similar measures from a chart audit in a well-defined population.

American Journal of Medical Quality, 16(1): 3-8.

RELATED LINKS

 CDC Diabetes and Flu/Pneumococcal Campaign (http://www.cdc.gov/diabetes/projects/cdc-flu.htm)

• CDC National Center for Chronic Disease Prevention and Health Promotion - Links related to influenza and pneumococcal

vaccines

(http://www.cdc.gov/diabetes/projects/links.htm)

• Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

LAST UPDATED

INDICATOR Foot Exam

CATEGORY Secondary Prevention for Persons with

Diabetes

GENERAL DEFINITION The percentage of persons with diabetes who have had a foot

exam performed by a health care professional during a specified

time period.

RATIONALE Persons with diabetes are at increased risk of hospitalization,

morbidity, disability, and mortality associated with lower extremity amputations. Early detection and treatment of foot ulcers can reduce the risk of lower extremity amputation. This process indicator provides information about the quality of

diabetes care provided.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

CSTE Chronic Disease Indicators Health Disparities Collaboratives

Indian Health Service

National Diabetes Quality Improvement Alliance (formerly DQIP)

DDT NATIONAL OBJECTIVE This indicator links to the Division of Diabetes Translation (DDT)

National Objective to increase the percentage of persons with diagnosed diabetes who receive the recommended foot exam.

HP 2010 OBJECTIVE Objective 5-14: To increase the proportion of adults with

diabetes who have at least an annual foot exam.

BASELINE Sixty-eight percent of adults with diabetes

who had at least an annual foot exam

(BRFSS, age-adjusted, 1998).

TARGET Seventy-five percent of adults aged 18 years

and older with diabetes having a foot exam

at least once a year.

STANDARDS OF CARE

American Diabetes Association

 National Quality Forum, National Voluntary Consensus Standards for Adult Diabetes Care. Available from: The National Quality Forum, A601 Thirteenth Street, NW, Suite 500 North,

Washington, DC 20005; Tel: 202.783.1300.

DATA SUMMARY

Diabetes Surveillance System

 Harwell TS, Moore K, Madison M, Powell-Taylor D, Lundgren P, Smilie JG, Acton KJ, Helgerson SD, Gohdes D. (2001).

Comparing self-reported measures of diabetes care with similar measures from a chart audit in a well-defined population.

American Journal of Medical Quality, 16(1): 3-8.

 J.B. Saaddine, M.M. Engelgau, G.L. Beckles, E.W. Gregg, T.J. Thompson, and K.M.V. Narayan. (2001). A Diabetes Report Card for the United States: Quality of Care in the 1990s. Annals

of Internal Medicine, 136(8): 565-574.

• Levels of Diabetes-Related Preventive-Care Practices --- United

States, 1997--1999

RELATED LINKS

• Guide to Community Preventive Services

(http://www.cdc.gov/diabetes/projects/community.htm)

Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

• Lower Extremity Amputation Prevention Program, Bureau of

Primary Health Care, Division of Programs for Special

Populations

(http://bphc.hrsa.gov/leap/)

• The American Podiatric Medical Association (http://www.apma.org/diabetes01pub.htm)

LAST UPDATED

INDICATOR Hospitalization for Cardiovascular Disease

among Persons with Diabetes

CATEGORY Diabetes-related Complications

GENERAL DEFINITION The number of hospital discharges associated with

cardiovascular disease among persons with diabetes.

RATIONALE Cardiovascular disease is the leading cause of diabetes-related

> deaths. This outcome measure is valuable to track the burden of heart disease upon the population of persons with diabetes.

ORGANIZATION(S) RECOMMENDING THE

DDT NATIONAL OBJECTIVE

INDICATOR

This indicator does not directly link to any of the 7 national objectives.

CDC

HP 2010 OBJECTIVE This indicator is not directly linked with an HP 2010 objective.

 American Diabetes Association STANDARDS OF CARE

American Heart Association

DATA SUMMARY • Diabetes Surveillance System

• Major Cardiovascular Disease (CVD) During 1997--1999 and

Major CVD Hospital Discharge Rates in 1997 Among Women

with Diabetes --- United States

RELATED LINKS American College of Cardiology

(http://www.acc.org/)

· National Heart, Lung, and Blood Institute (http://www.nhlbi.nih.gov/index.htm)

• The Link between Cardiovascular Disease and Diabetes

(http://ndep.nih.gov/control/CVD.htm)

INDICATOR Hospitalization for Lower Extremity

Amputations

CATEGORY Diabetes-related Complications

GENERAL DEFINITION The number of non-traumatic lower extremity amputation (LEA)

hospital discharges among persons with diabetes.

RATIONALE Diabetes is the leading cause of non-traumatic lower extremity

amputations. This outcome measure provides information about

one consequence of long-term uncontrolled diabetes.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

AHRQ CDC

CSTE Chronic Disease Indicators

DDT NATIONAL OBJECTIVE This indicator is indirectly related to the Division of Diabetes

Translation (DDT) National Objective to increase the percentage of

persons who receive recommended foot exams.

HP 2010 OBJECTIVE Objective 5-10: To reduce the rate of lower extremity amputations

in persons with diabetes.

BASELINE 6.6 lower extremity amputations per 1,000

persons with diabetes per year (NHDS, NHIS,

age-adjusted, 1997-1999).

TARGET 1.8 lower extremity amputations per 1,000

persons with diabetes per year (age-adjusted).

STANDARDS OF CARE • American Diabetes Association

• American Podiatric Medical Association

DATA SUMMARY • Diabetes Surveillance System

• Krapfl H & Gohdes D. (2003). Lower extremity amputation episodes among persons with diabetes - New Mexico, 2000.

MMWR, 52(4), 66-68.

RELATED LINKS •Global Lower Extremity Amputation Study

(http://www.ncl.ac.uk/hopit/hopit_gleas.htm)

•Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

•MMWR Article "Hospital Discharge Rates for Non-traumatic Lower Extremity Amputation by Diabetes Status -- United States, 1997" (http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5043a3.htm)

•MMWR Article "Lower Extremity Amputations Among Persons with

Diabetes Mellitus -- Washington, 1988"

(http://www.cdc.gov/mmwr/preview/mmwrhtml/00015500.htm)

 The Lower Extremity Amputation Prevention (LEAP) Program (http://bphc.hrsa.gov/programs/LEAPprograminfo.htm#HISTORY)

INDICATOR Incidence of End-Stage Renal Disease

Attributed to Diabetes

CATEGORY Diabetes-related Complications

GENERAL DEFINITION The annual rate of new end-stage renal disease cases

attributable to diabetes during the year.

RATIONALE Diabetes is the leading cause of new end state renal disease

(ESRD) cases in the U.S. ESRD results in increased hospitalizations, disability, and morbidity for people with diabetes. Financial costs of ESRD are also high. This outcome measure provides information about one consequence of long-

term uncontrolled diabetes.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC
CSTE Chronic Disease Indicators

DDT NATIONAL OBJECTIVE Disparities in ESRD incidence are great. As a result, this indicator

relates to the DDT National objective of reducing health

disparities in high-risk populations.

HP 2010 OBJECTIVE Objective 4-7: Reduce kidney failure due to diabetes

BASELINE 129 reported persons with ESRD attributable

to diabetes per million population (USRDS,

age-adjusted, 1997).

TARGET 78 reported persons with ESRD attributable

to diabetes per million population.

STANDARDS OF CARE • American Diabetes Association

DATA SUMMARY • "Forecast of the Number of Patients with End-Stage Renal

Disease in the United States to the Year 2010"

· Data summaries available from USRDS

Diabetes Surveillance System

• Forum of End Stage Renal Disease Networks

National Kidney Foundation

• USRDS Renal Data Extraction and Reference (RenDER)

RELATED LINKS

• CDC National Center for Chronic Disease Prevention and Health

Promotion

(http://www.cdc.gov/diabetes/)

• Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

National Institute of Diabetes and Digestive and Kidney

Diseases of the National Institutes of Health

(http://www.niddk.nih.gov)

National Kidney Foundation
(http://www.kidney.org)

National Renal Administrators Association

(http://www.nraa.org)

 University of Michigan Kidney and Epidemiology Cost Center (http://www.med.umich.edu/kidney/)

 USRDS Coordinating Center Contacts (http://www.usrds.org/contacts.htm)

INDICATOR Incidence of Gestational Diabetes
CATEGORY Prevalence & Incidence of Diabetes

GENERAL DEFINITION The percentage of women diagnosed with diabetes during

pregnancy.

RATIONALE Approximately 7% of all pregnancies are complicated by GDM,

resulting in more than 200,000 cases annually. Gestational diabetes may be associated with intrauterine fetal death, increased frequency of maternal hypertensive disorders and the need for cesarean delivery. Women with GDM are at increased risk for the development of type 2 diabetes following pregnancy. Their offspring are at an increased risk for obesity as well as impaired glucose tolerance and type 2 diabetes. This surveillance indicator is used for program planning, policy development, and

provides the denominator for other diabetes indicators.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

American College of Obstetricians and Gynecologists

CDC

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE Objective 5-8: To decrease the proportion of pregnant women

with gestational diabetes. (Developmental)

BASELINE To be determined

TARGET To be determined

STANDARDS OF CARE • American Diabetes Association

DATA SUMMARY • Births: Final data for 2000

• Prenatal Care and Pregnancies Complicated by Diabetes -- U.S.

Reporting Areas, 1989

RELATED LINKS • American College of Obstetricians and Gynecologists

(http://www.acog.org/)

• CDC's Initiative on Diabetes and Women's Health (http://www.cdc.gov/diabetes/projects/women.htm)

• Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

INDICATOR LDL-C Level

CATEGORY **Secondary Prevention for Persons with**

Diabetes

GENERAL DEFINITION The percentage of persons with diabetes who have an LDL-C

level indicating a certain level of control as defined by user.

RATIONALE Persons with diabetes are at increased risk of complications from

> cardiovascular disease, such as stroke, angina, and congestive heart failure. Early detection of elevated lipid levels and appropriate treatment can decrease risk for cardiovascular complications. This process measure may provide information about the quality of diabetes care provided and/or diabetes self-

management behavior.

ORGANIZATION(S) RECOMMENDING THE

INDICATOR

Health Disparities Collaboratives

Indian Health Service

National Diabetes Quality Improvement Alliance (formerly DQIP)

NCQA

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE Objective 12-16: To increase the proportion of persons with

coronary heart disease who have their LDL-cholesterol level treated to a goal of less than or equal to 100mg/dL.

(Developmental)

BASELINE To be determined

TARGET To be determined

STANDARDS OF CARE

- American Diabetes Association
- American Heart Association
- Guide to Community Preventive Services
- National Quality Forum, National Voluntary Consensus Standards for Adult Diabetes Care. Available from: The National Quality Forum, A601 Thirteenth Street, NW, Suite 500 North, Washington, DC 20005; Tel: 202.783.1300.
- Third Report of the Expert Panel on Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults (Adult Treatment

Panel III) Executive Summary

DATA SUMMARY

- J.B. Saaddine, M.M. Engelgau, G.L. Beckles, E.W. Gregg, T.J. Thompson, and K.M.V. Narayan. (2001). A Diabetes Report Card for the United States: Quality of Care in the 1990s. Annals of Internal Medicine, 136(8): 565-574.
- Progress in Chronic Disease Prevention Factors Related to Cholesterol Screening and Cholesterol Level Awareness --

United States, 1989

RELATED LINKS

- American Heart Association
- (http://www.s2mw.com/heartofdiabetes/diabetes.html)
- Guide to Community Preventive Services

(http://www.cdc.gov/diabetes/projects/community.htm)

• Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

• Lipids Online (Baylor College of Medicine)

(http://www.lipidsonline.org/)

CATEGORY

INDICATOR Monitoring for Diabetic Nephropathy **Secondary Prevention for Persons with Diabetes**

GENERAL DEFINITION

The percentage of persons with diabetes who are monitored appropriately for nephropathy (a type of kidney disease).

RATIONALE

Diabetic nephropathy occurs in 20-40% of patients with diabetes and is the single leading cause of End-Stage Renal Disease (ESRD). Early detection of diabetic nephropathy may delay or prevent onset of ESRD. This process measure may provide information about the quality of diabetes care provided and/or diabetes self-management.

ORGANIZATION(S) RECOMMENDING THE INDICATOR

National Diabetes Quality Improvement Alliance (formerly DQIP)

NCQA

DDT NATIONAL OBJECTIVE

This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE

This indicator is not directly linked with an HP 2010 objective.

STANDARDS OF CARE

- American Diabetes Association
- National Kidney Foundation
- National Quality Forum, National Voluntary Consensus Standards for Adult Diabetes Care. Available from: The National Quality Forum, A601 Thirteenth Street, NW, Suite 500 North, Washington, DC 20005; Tel: 202.783.1300.
- Use of Glycated Hemoglobin and Microalbuminuria in the Monitoring of Diabetes Mellitus. Summary, Evidence Report/Technology Assessment: Number 84. AHRQ Publication No. 03-E048, July 2003. Agency for Healthcare Research and Quality, Rockville, MD.

DATA SUMMARY

- J.B. Saaddine, M.M. Engelgau, G.L. Beckles, E.W. Gregg, T.J. Thompson, and K.M.V. Narayan. (2001). A Diabetes Report Card for the United States: Quality of Care in the 1990s. Annals of Internal Medicine, 136(8): 565-574.
- National Kidney Foundation

RELATED LINKS

 National Institute of Diabetes and Digestive and Kidney Diseases of the National Institutes of Health

(http://www.niddk.nih.gov) National Kidney Foundation (http://www.kidney.org)

LAST UPDATED

INDICATOR Obesity - Primary Prevention in Adults

CATEGORY Lifestyle

GENERAL DEFINITION The percentage of adults who do not have diabetes who have a

body mass index (BMI) equal to or greater than 30.0 kg/m².

RATIONALE Adults who are obese are at higher risk for acquiring diabetes.

This lifestyle indicator provides information about the need for programs to promote reaching and maintaining a healthy weight

among persons without diabetes.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the current 7

national objectives. Future objectives may include

recommendations for the promotion of wellness, including weight

control, among persons at-risk for diabetes (primary

prevention).

HP 2010 OBJECTIVE Objective 19-1: To increase the proportion of adults who are at a

healthy weight.

BASELINE Objective 19-1: Forty-two percent of adults

aged 20 years and older were at a healthy weight defined as a body mass index (BMI) equal to or greater than 18.5 and less than 25.0 kg/m2 (NHANES, age-adjusted, 1988-

94)

TARGET Objective 19-1: Sixty percent of adults aged

20 years and older at a healthy weight.

Objective 19-2: To reduce the proportion of adults who are obese.

BASELINE Objective 19-2: Twenty-three percent of

adults aged 20 years and older were identified as obese defined as a BMI of 30.0 kg/m2 or more (NHANES, age-adjusted,

1988-94).

TARGET Objective 19-2: Fifteen percent of adults

aged 20 years or older who are obese.

STANDARDS OF CARE • American Diabetes Association

DATA SUMMARY • Body Weight Status of Adults: United States, 1997-98

Prevalence of Overweight and Obesity Among Adults: United

States, 1999-2000

RELATED LINKS

• American Diabetes Association (http://www.diabetes.org)

 American Dietetic Association (http://www.eatright.org)

 American Heart Association (http://www.americanheart.org)

• Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

- National Heart, Lung, and Blood Institute
- (http://www.nhlbi.nih.gov/guidelines/obesity/ob_home.htm)
- National Institute of Diabetes and Digestive and Kidney Diseases: Physical Activity and Weight Control (http://www.niddk.nih.gov/health/nutrit/pubs/physact.htm)
- The Association for the Study of Obesity
- (http://aso.org.uk/)
- WHO International

(http://www.who.int/nut/#obs)

LAST UPDATED

INDICATOR **Obesity - Secondary Prevention in Adults**

with Diabetes

CATEGORY Lifestyle

GENERAL DEFINITION

The percentage of adults with diabetes who are obese based upon having a body mass index (BMI) equal or greater than 30.0

 kg/m^2 .

RATIONALE

Adults who are obese are at higher risk acquiring complications from diabetes. Excess body weight is linked to insulin resistance. Weight control can increase the efficiency of the insulin receptors in the cells. This lifestyle indicator provides information about the need for programs to promote reaching and maintaining a healthy weight among persons with diabetes.

ORGANIZATION(S) RECOMMENDING THE **INDICATOR**

CDC

Indian Health Service

DDT NATIONAL OBJECTIVE

This indicator links to the Division of Diabetes Translation (DDT) National Objective to succeed in establishing linkages for promotion of wellness, physical activity, weight and blood pressure control and smoking cessation for persons with diabetes.

HP 2010 OBJECTIVE

Objective 19-1: To increase the proportion of adults with diabetes who are at a healthy weight.

BASELINE

Objective 19-1: Twenty-six percent of adults aged 20 years and older with diabetes were at a healthy weight defined as a body mass index (BMI) equal to or greater than 18.5 and less than 25.0 kg/m2 (NHANES, ageadjusted, 1988-94).

TARGET

Objective 19-1: Sixty percent of adults aged 20 years and older with diabetes at a healthy weight.

Objective 19-2: To reduce the proportion of adults with diabetes who are obese.

BASELINE

Objective 19-2: Forty-one percent of adults aged 20 years and older with diabetes were identified as obese defined as a BMI of 30.0 kg/m2 or more (NHANES, age-adjusted, 1988-94).

TARGET

Objective 19-2: Fifteen percent of adults aged 20 years or older who are obese.

STANDARDS OF CARE

American Diabetes Association

American Heart Association

DATA SUMMARY

- Body Weight Status of Adults: United States, 1997-98
- BRFSS Trends Data
- Prevalence of Overweight and Obesity Among Adults: United States, 1999-2000

RELATED LINKS

- American Dietetic Association (http://www.eatright.org)
- CDC Nutrition and Physical Activity Program (http://www.cdc.gov/nccdphp/dnpa/)
- Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

- National Heart, Lung, and Blood Institute
- (http://www.nhlbi.nih.gov/guidelines/obesity/ob_home.htm)
 National Institute of Diabetes and Digestive and Kidney
- National Institute of Diabetes and Digestive and Kidney
 Diseases: Physical Activity and Weight Control
 (http://www.niddk.nih.gov/health/nutrit/pubs/physact.htm)
- NHLBI Obesity Education Initiative (http://nhlbi.nih.gov/about/oei/index.htm)
- Physical Activity and Good Nutrition: Essential Elements to Prevent Chronic Diseases and Obesity

(http://www.cdc.gov/nccdphp/aag/aag_dnpa.htm)

• The Association for the Study of Obesity (http://aso.org.uk/)

LAST UPDATED

INDICATOR Overweight or Obese - Secondary

Prevention in Adults with Diabetes

CATEGORY Lifestyle

GENERAL DEFINITION The percentage of persons with diabetes who are overweight

based upon having a body mass index (BMI) equal to or greater

than 25.0 kg/m².

RATIONALE Adults who are overweight are at higher risk for acquiring

complications from diabetes Excess body weight is linked to insulin resistance. Weight control can increase the efficiency of the insulin receptors in the cells. This lifestyle indicator provides information about the need for programs to promote reaching and maintaining a healthy weight among persons with diabetes.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

Indian Health Service

DDT NATIONAL OBJECTIVE This indicator links to the Division of Diabetes Translation (DDT)

National Objective to succeed in establishing linkages for promotion of wellness, physical activity, weight and blood pressure control and smoking cessation for persons with

diabetes.

HP 2010 OBJECTIVE This indicator is not directly linked with an HP 2010 objective

specific to persons with diabetes.

STANDARDS OF CARE • American Diabetes Association

American Heart Association

DATA SUMMARY • Body Weight Status of Adults: United States, 1997-98

BRFSS Trends Data

 Harwell TS, Moore K, Madison M, Powell-Taylor D, Lundgren P, Smilie JG, Acton KJ, Helgerson SD, Gohdes D. (2001).

Comparing self-reported measures of diabetes care with similar measures from a chart audit in a well-defined population.

American Journal of Medical Quality, 16(1): 3-8.

Prevalence of Overweight and Obesity Among Adults: United

States, 1999-2000

RELATED LINKS• American Dietetic Association (http://www.eatright.org)

• CDC Nutrition and Physical Activity Program
(http://www.cdc.gov/pccdphp/dppa/)

(http://www.cdc.gov/nccdphp/dnpa/)

National Heart, Lung, and Blood Institute

(http://www.nhlbi.nih.gov/guidelines/obesity/ob_home.htm)

 National Institute of Diabetes and Digestive and Kidney Diseases: Physical Activity and Weight Control

(http://www.niddk.nih.gov/health/nutrit/pubs/physact.htm)

Physical Activity and Good Nutrition: Essential Elements to

Prevent Chronic Diseases and Obesity (http://www.cdc.gov/nccdphp/aag/aag dnpa.htm)

Surgeon General's Call to Action to Prevent and Decrease

Overweight and Obesity

(http://www.surgeongeneral.gov/topics/obesity)

INDICATOR Overweight or Obese- Primary Prevention in

Adults

CATEGORY Lifestyle

GENERAL DEFINITION The percentage of adults without diabetes who are overweight

based upon having a body mass index (BMI) equal to or greater

than 25.0 kg/m².

RATIONALE Adults who are overweight are at higher risk for acquiring

diabetes. This lifestyle indicator provides information about the need for programs to promote reaching and maintaining a

healthy weight among persons without diabetes.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the current 7

national objectives. Future objectives may include

recommendations for the promotion of wellness, including weight control, among persons at risk for diabetes (primary prevention).

HP 2010 OBJECTIVE

Objective 19-1: To increase the proportion of adults who are at a

healthy weight.

BASELINE Objective 19-1: Forty-two percent of adults

aged 20 years and older were at a healthy weight defined as a body mass index (BMI) equal to or greater than 18.5 and less than 25.0 kg/m2 (NHANES, age-adjusted, 1988-

94).

TARGET Objective 19-1: Sixty percent of adults aged

20 years and older at a healthy weight.

Objective 19-2: To reduce the proportion of adults who are obese.

BASELINE Objective 19-2: Twenty-three percent of

adults aged 20 years and older were identified as obese defined as a BMI of 30.0 kg/m2 or more (NHANES, age-adjusted,

1988-94).

TARGET Objective 19-2: Fifteen percent of adults

aged 20 years or older who are obese.

STANDARDS OF CARE • American Diabetes Association

DATA SUMMARY • Body Weight Status of Adults: United States, 1997-98

• BRFSS Trends Data

• Prevalence of Overweight and Obesity Among Adults: United

States, 1999-2000

RELATED LINKS • American Dietetic Association

(http://www.eatright.org)

American Heart Association (http://www.americanheart.org/)

• Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

- National Heart, Lung, and Blood Institute
- (http://www.nhlbi.nih.gov/guidelines/obesity/ob_home.htm)
- National Institute of Diabetes and Digestive and Kidney Diseases: Physical Activity and Weight Control (http://www.niddk.nih.gov/health/nutrit/pubs/physact.htm)
- Physical Activity and Good Nutrition: Essential Elements to Prevent Chronic Diseases and Obesity (http://www.cdc.gov/nccdphp/aag/aag_dnpa.htm)

LAST UPDATED

INDICATOR Pneumococcal Vaccination

CATEGORY Secondary Prevention for Persons with

Diabetes

GENERAL DEFINITION The percentage of persons with diabetes who have ever had a

pneumococcal vaccination.

RATIONALE Persons with diabetes are at increased risk of hospitalization,

morbidity, and mortality associated with pneumonia.

Pneumococcal vaccination has the potential to improve morbidity and mortality outcomes among persons with diabetes. This process indicator provides information about the quality of

diabetes care provided.

ORGANIZATION(S) RECOMMENDING THE

INDICATOR

CDC

CSTE Chronic Disease Indicators Health Disparities Collaboratives

Indian Health Service

DDT NATIONAL OBJECTIVE This indicator links to the Division of Diabetes Translation (DDT)

National Objective to increase the percentage of persons with

diagnosed diabetes who received the recommended

pneumococcal vaccine.

HP 2010 OBJECTIVE Objective 14-29: To increase the proportion of non-

> institutionalized adults who are (vaccinated annually against influenza) and ever vaccinated against pneumococcal disease.

BASELINE Sixty-six percent of non-institutionalized

adults aged 65 years and older with diabetes ever vaccninated against pneumococcal

disease. Thirty-six percent of non-

institutionalized high-risk adults aged 18-64 years with diabetes ever vaccinated against

pneumococcal disease, (NHIS, 1998)

TARGET Ninety percent of non-institutionalized adults

> aged 65 years and older vaccinated against pneumococcal disease. Sixty percent of noninstitutionalized high-risk adults aged 18-64 vaccinated annually against pneumococcal

disease.

STANDARDS OF CARE · American College of Physicians

American Diabetes Association

National Network for Immunization Information (NNII)

DATA SUMMARY Diabetes Surveillance System

· Harwell TS, Moore K, Madison M, Powell-Taylor D, Lundgren P,

Smilie JG, Acton KJ, Helgerson SD, Gohdes D. (2001).

Comparing self-reported measures of diabetes care with similar measures from a chart audit in a well-defined population.

American Journal of Medical Quality, 16(1): 3-8.

RELATED LINKS American Lung Association

(http://www.lungusa.org/diseases/pneumonia_factsheet.html)

 CDC Diabetes and Flu/Pneumococcal Campaign (http://www.cdc.gov/diabetes/projects/cdc-flu.htm)

• CDC National Center for Chronic Disease Prevention and Health Promotion - Links related to influenza and pneumococcal

vaccines

(http://www.cdc.gov/diabetes/projects/links.htm)

• Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

National Foundation for Infectious Diseases

(http://www.nfid.org/factsheets/pneumofacts.html)

LAST UPDATED

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INDICATOR Prevalence of Cardiovascular Complications

among Persons with Diabetes

CATEGORY Diabetes-related Complications

GENERAL DEFINITION The prevalence of cardiovascular complications among persons

with diabetes during a specified time period.

RATIONALE Cardiovascular disease (CVD) is the leading cause of diabetes-

related deaths. This outcome measure is valuable to track the burden of CVD upon the population of persons with diabetes.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE This indicator is not directly linked with an HP 2010 objective

specifically for persons with diabetes.

STANDARDS OF CARE • American Diabetes Association

American Heart Association

DATA SUMMARY • Benjamin S, Geiss LS, Pan L, Engelgau MM, & Greenlund KJ.

(2003). Self-reported heart disease among adults with and without diabetes – United States, 1999-2001. MMWR, 52(44):

1065-1070.

• Diabetes Surveillance System

 Major Cardiovascular Disease (CVD) During 1997--1999 and Major CVD Hospital Discharge Rates in 1997 Among Women

with Diabetes --- United States

RELATED LINKS • American College of Cardiology

(http://www.acc.org/)

 National Heart, Lung, and Blood Institute (http://www.nhlbi.nih.gov/index.htm)

• The Link between Cardiovascular Disease and Diabetes

(http://ndep.nih.gov/control/CVD.htm)

INDICATOR Prevalence of Diabetes in Adults
CATEGORY Prevalence & Incidence of Diabetes

GENERAL DEFINITION

The percentage or number of adults who have been diagnosed with

diabetes.

RATIONALE

Prevalence of diagnosed diabetes is a key measure for assessing the current and changing burden of diabetes in a population. This surveillance indicator is used for program planning, policy development, and provides the denominator for other diabetes indicators.

ORGANIZATION(S)
RECOMMENDING THE
INDICATOR

CDC

CSTE Chronic Disease Indicators

Indian Health Service

DDT NATIONAL OBJECTIVE

This indicator is the denominator for the following Division of Diabetes Translation (DDT) National Objectives: recommended eye exams, foot exams, A1c tests, and influenza and pneumococcal vaccines.

HP 2010 OBJECTIVE

Objective 5-3: To reduce the overall rate of diabetes that is clinically diagnosed.

BASELINE Forty per 1,000 persons (4.0%) who report ever

being diagnosed with diabetes (NHIS, age-

adjusted, 1997).

TARGET Twenty-five per 1,000 persons (2.5%) who report

ever being diagnosed with diabetes.

STANDARDS OF CARE

· American Diabetes Association

DATA SUMMARY

- Cowie CC, Rust, KF, Byrd-Holt D, Eberhardt MS, Saydah S, Geiss LS, Engelgau MM, Ford ES, & Gregg EW. (2003). Prevalence of Diabetes and Impaired Fasting Glucose in Adults – United States, 1999-2000. MMWR 52(35); 833-837.
- Diabetes Surveillance System
- Harris MI, Flegal KM, Cowie CC, Eberhardt MS, Goldstein DE, Little RR, Wiedmeyer HM, Byrd-Hold DD. (1998). Prevalence of diabetes, impaired fasting glucose, and impaired glucose tolerance in adults. The Third National Health and Nutrition Examination Survey, 1988-1994. Diabetes Care. 21: 518-524.
- Narayan, KM, Boyle JP, Thompson TJ, Sorensen, SW, and Williamson, DF. (2003). Lifetime risk for diabetes mellitus in the United States. JAMA, 290(14): 1884-1890.
- National Center for Health Statistics. Special Feature: Diabetes in Health, United States, 2003. With Chartbook on Trends in the Health of Americans. Hyattsville, Maryland: 2003, pp. 58-63.
- Simon PA, Zeng Z, Fielding JE, Burrows NR, & Engelgau MM. (2003). Diabetes among Hispanics Los Angeles County, California, 2002-2003. MMWR, 52(47): 1152-1155.

RELATED LINKS

- Diabetes Surveillance System
- (http://www.cdc.gov/diabetes/statistics/index.htm)
- •Healthy People 2010
- (http://wonder.cdc.gov/data2010/focus.htm)
- National Institute of Diabetes and Digestive and Kidney Diseases: General Information and National Estimates on Diabetes in the US,
- (http://www.niddk.nih.gov/health/diabetes/pubs/dmstats/dmstats.htm)
- •WHO International: Estimated Prevalence Among Adults, 1997

(http://www.who.int/whr2001/2001/archives/1998/images/diab97-e.gif)

•WHO International: Estimated Prevalence Among Adults, 2025 (http://www.who.int/whr2001/2001/archives/1998/images/diab25-e.gif)

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INDICATOR Prevalence of Diabetes in Children
CATEGORY Prevalence & Incidence of Diabetes

GENERAL DEFINITION

The percentage or number of children who have been diagnosed with diabetes.

RATIONALE

Approximately 1 out of every 400-500 children and adolescents have Type 1. Clinic-based reports and regional studies indicate that Type 2 diabetes is becoming more common among American Indian, African American, and Hispanic/Latino children and adolescents. Prevalence of diagnosed diabetes is a key measure for assessing the current and changing burden of diabetes in a population. This surveillance indicator is used for program planning and policy development aimed at easing the burden of diabetes among children.

ORGANIZATION(S)
RECOMMENDING THE
INDICATOR

CDC

Indian Health Service

DDT NATIONAL OBJECTIVE

This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE

This indicator is not directly linked with an HP 2010 objective.

STANDARDS OF CARE

- American Diabetes Association Care of Children With Diabetes in the School and Day Care Setting
- in the School and Day Care Setting
- American Diabetes Association Management of Diabetes at Diabetes Camps

DATA SUMMARY

- Moore KR, Harwell TS, McDowall JM, Oser CS, Helgerson SD, Gohdes D, & Burrows N. (2003). Diabetes among young American Indians – Montana and Wyoming, 2000-2002. MMWR, 52(46): 1127-1129.
- National Diabetes Fact Sheet
- Reference Documents on Type 2 Diabetes in Children

RELATED LINKS

- American Diabetes Association. Type 2 Diabetes in Children. [Consensus Statement]. Diabetes Care 2000; 23:381-9. (http://care.diabetesjournals.org/cgi/reprint/23/3/381.pdf)
- CDC: Diabetes and Children
- (http://www.cdc.gov/diabetes/projects/cda2.htm)
- Children with Diabetes Foundation (http://www.cwdfoundation.org/)
- International Society for Pediatric and Adolescent Diabetes (http://www.ispad.org/)
- Juvenile Diabetes Research Foundation International
- (http://www.jdrf.org/)National Institute for Diabetes and Digestive and Kidney
- Disease

(http://www.niddk.nih.gov)

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INDICATOR Prevalence of Diabetic Retinopathy
CATEGORY Diabetes-related Complications

GENERAL DEFINITION The percentage of persons with diabetes who have been

diagnosed with diabetic retinopathy.

RATIONALE Diabetes is the leading cause of blindness among working age

adults. This measure provides information about the prevalence

of an intermediate outcome of uncontrolled diabetes.

ORGANIZATION(S)
RECOMMENDING THE
INDICATOR

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVEThis indicator is not directly linked with an HP 2010 objective.

STANDARDS OF CARE • American Diabetes Association

 Perspectives in Disease Prevention and Health Promotion Guidelines for Diabetic Eye Disease Control -- Kentucky

DATA SUMMARY • Blindness Caused by Diabetes -- Massachusetts, 1987-1994

 CE Basch, EA Walker, CJ Howard, H Shamoon and P Zybert. (1999). The effect of health education on the rate of ophthalmic examinations among African Americans with diabetes mellitus. American Journal of Public Health, 89(12): 1878-1882

• Harris MI, Klein R, Cowie CC, Rowland M, & Byrd-Holt DD. (1998). Is the risk of diabetic retinopathy greater in non-Hispanic Blacks and Mexican Americans than in Non-Hispanic Whites with Type 2 Diabetes? Diabetes Care, 21(8):1230-1235.

• Undiagnosed Diabetes and Related Eye Disease in Mexican-

Americans -- A Call for Increased Detection

 Vision Problems in the U.S. Vision Problems State by State Prevalence of Adult Vision Impairment and Age-Related Eye

Disease in America

RELATED LINKS • American Academy of Ophthalmology

(http://www.aao.org)

American Optometric Association

(http://www.aoanet.org)

 Diabetic Retinopathy Foundation (http://www.retinopathy.org/)

Healthy Vision 2010

(http://www.healthyvision2010.org/exams/dee.htm)

 National Eye Institute (http://www.nei.nih.gov/)

Prevent Blindness America

(http://www.preventblindness.org)

INDICATOR Prevalence of End-Stage Renal Disease

CATEGORY Diabetes-related Complications

GENERAL DEFINITION The percentage of the general population reporting that they

have kidney failure requiring renal dialysis or renal transplantation, with diabetes as the primary cause of the

disease.

RATIONALE End-stage renal disease is a major cause of hospitalization,

disability, morbidity, and mortality for people with diabetes. This outcome measure provides information about one consequence

of long-term uncontrolled diabetes.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC CSTE

Indian Health Service

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE Objective 4.7: To reduce kidney failure due to diabetes.

BASELINE 129 reported persons with ESRD attributable

to diabetes per million population (USRDS,

age-adjusted, 1997).

TARGET 78 reported persons with ESRD attributable

to diabetes per million population.

STANDARDS OF CARE • American Diabetes Association

DATA SUMMARY

• "Forecast of the Number of Patients with End-Stage Renal

Disease in the United States to the Year 2010"

• Data summaries available from USRDS

• Diabetes Surveillance System

 End-Stage Renal Disease Attributed to Diabetes Among American Indians/Alaska Natives With Diabetes --- United

States, 1990--1996

• Forum of End Stage Renal Disease Networks

USRDS Renal Data Extraction and Reference (RenDER)

RELATED LINKS

• CDC National Center for Chronic Disease Prevention and Health

Promotion

(http://www.cdc.gov/diabetes/)

• Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

National Institute of Diabetes and Digestive and Kidney

Diseases of the National Institutes of Health

(http://www.niddk.nih.gov)

 National Kidney Foundation (http://www.kidney.org)

University of Michigan Kidney and Epidemiology Cost Center

(http://www.med.umich.edu/kidney/)USRDS Coordinating Center Contacts

(http://www.usrds.org/contacts.htm)

INDICATOR Prevalence of Foot Ulcers

CATEGORY Diabetes-related Complications

GENERAL DEFINITION The percentage of persons with diabetes who report ever having

a foot ulcer.

RATIONALE Diabetes is the leading cause of non-traumatic lower extremity

amputations. The presence of foot ulcers increases is linked to an increased risk for lower extremity amputation. This measure provides information about the prevalence of an intermediate

outcome of poorly controlled diabetes.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE Objective 5-9: To reduce the frequency of foot ulcers in persons

with diabetes. (Developmental)

BASELINE To be determined

TARGET To be determined

STANDARDS OF CARE • American Diabetes Association

DATA SUMMARY

• Aguiar ME, Burrows NR, Wang J, Boyle JP, Geiss, LS, &

Engelgau MM. (2003). History of foot ulcer among persons with diabetes – United States, 2000-2002. MMWR 52(45): 1098-

1102.

 Armstrong DG & Lavery LA. (1998). Diabetic Foot Ulcers: Prevention, Diagnosis, and Classification. American Family

Physician.

RELATED LINKS • Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

• Lower Extremity Amputation Prevention Program, Bureau of

Primary Health Care, Division of Programs for Special

Populations

(http://bphc.hrsa.gov/leap/)

 The American Podiatric Medical Association (http://www.apma.org/diabetes01pub.htm)

INDICATOR Regular Physical Activity - Primary

Prevention in Adults

CATEGORY Lifestyle

GENERAL DEFINITION

The percentage of the adult population without diabetes who report engaging in a regular physical activity regimen.

RATIONALE

Regular physical activity is associated with improved carbohydrate metabolism and insulin sensitivity, and therefore can contribute to the prevention of Type 2 diabetes. This lifestyle indicator provides information about the need for programs to promote physical activity its role in diabetes prevention.

ORGANIZATION(S) RECOMMENDING THE **INDICATOR**

CDC

DDT NATIONAL **OBJECTIVE**

This indicator does not directly link to any of the current 7 national objectives. Future objectives may include recommendations for the promotion of wellness, including physical activity, among persons at-risk for diabetes (primary prevention).

HP 2010 OBJECTIVE

Objective 22-2: To increase the proportion of adults who engage regularly, preferably daily, in moderate physical activity for at least 30 minutes per day.

BASELINE Thirty-two percent of adults aged 18 years and older

engaged in moderate physical activity for at least 30 minutes 5 or more days per week in 1997 (NHIS, age-

adjusted, 1997).

TARGET Fifty percent of adults engaging in moderate physical

activity for at least 30 minutes 5 or more days per

STANDARDS OF CARE

· American Diabetes Association

DATA SUMMARY

RELATED LINKS

American Heart Association

(http://www.americanheart.org/presenter.jhtml?identifier=2155)

•Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

•National Heart, Lung, and Blood Institute

(http://www.nhlbi.nih.gov/health/public/heart/obesity/lose_wt/phy_act.htm)

•National Institute of Diabetes and Digestive and Kidney Diseases: Physical

Activity and Weight Control

(http://www.niddk.nih.gov/health/nutrit/pubs/physact.htm)

•Physical Activity and Good Nutrition: Essential Elements to Prevent Chronic

Diseases and Obesity

(http://www.cdc.gov/nccdphp/aag/aag_dnpa.htm)

President's Council on Physical Fitness and Sports

(http://www.fitness.gov/)

•WHO International

(http://www.who.int/hpr/physactiv/)

INDICATOR Regular Physical Activity - Secondary

Prevention in Adults with Diabetes

CATEGORY Lifestyle

GENERAL DEFINITION The percentage of adults with diabetes who report engaging in a regular

physical activity regimen.

RATIONALE Regular physical activity is associated with improved carbohydrate

metabolism and insulin sensitivity, and therefore can contribute to the prevention of complications of diabetes. This lifestyle indicator provides information about the need for programs to promote physical activity among

persons with diabetes.

ORGANIZATION(S)
RECOMMENDING THE
INDICATOR

CDC CSTE

Indian Health Service

DDT NATIONAL OBJECTIVE

This indicator links to the Division of Diabetes Translation (DDT) National Objective to succeed in establishing linkages for promotion of wellness, physical activity, weight and blood pressure control and smoking cessation for

persons with diabetes.

HP 2010 OBJECTIVE This indicator is not directly linked with an HP 2010 objective specific to

persons with diabetes.

STANDARDS OF CARE • American Diabetes Association

• American Heart Association

DATA SUMMARY

RELATED LINKS • American Heart Association

(http://www.s2mw.com/heartofdiabetes/diabetes.html)

National Heart, Lung, and Blood Institute

(http://www.nhlbi.nih.gov/health/public/heart/obesity/lose_wt/phy_act.htm)

•National Institute of Diabetes and Digestive and Kidney Diseases: Physical

Activity and Weight Control

(http://www.niddk.nih.gov/health/nutrit/pubs/physact.htm)

•Physical Activity and Good Nutrition: Essential Elements to Prevent Chronic

Diseases and Obesity

(http://www.cdc.gov/nccdphp/aag/aag_dnpa.htm)

President's Council on Physical Fitness and Sports

(http://www.fitness.gov/)

Surgeon General's Report on Physical Activity and Health

(http://www.cdc.gov/nccdphp/sgr/sgr.htm)

INDICATOR Self-Blood Glucose Monitoring

CATEGORY Diabetes Self-care

GENERAL DEFINITION The percentage of people with diabetes who self-monitor their

blood glucose levels to facilitate reaching glucose goals.

RATIONALE Self-monitoring of blood glucose is important for assessing the

efficacy of treatment and to guide changes in medical nutrition therapy, exercise, and medications to achieve the best possible glucose control. This is important to prevent acute glycemic reactions and long-term diabetes complications. This process measure provides information about diabetes self-management.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

Indian Health Service

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE Objective 5-17: To increase the proportion of adults with

diabetes who perform self-blood-glucose-monitoring at least

once daily.

BASELINE Forty-three percent of adults aged 18 years

and older with diabetes who reported that they checked their blood for glucose or sugar by themselves or by a family member or friend at least once per day (BRFSS, age-

adjusted, 1998).

TARGET Sixty percent of adults aged 18 years and

older with diabetes performing self-bloodglucose-monitoring at least once daily.

STANDARDS OF CARE

- American Association of Clinical Endocrinologists
- · American Diabetes Association

DATA SUMMARY

- Diabetes Surveillance System
- Harwell TS, Moore K, Madison M, Powell-Taylor D, Lundgren P, Smilie JG, Acton KJ, Helgerson SD, Gohdes D. (2001).

Comparing self-reported measures of diabetes care with similar measures from a chart audit in a well-defined population.

American Journal of Medical Quality, 16(1): 3-8.

• Levels of Diabetes-Related Preventive-Care Practices --- United

States, 1997--1999

• Preventive-Care Practices Among Persons with Diabetes --

United States, 1995 and 2001

RELATED LINKS • Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

 Take Charge of Your Diabetes (Patient education material) (http://www.cdc.gov/diabetes/pubs/tcyd/ktrack.htm)

INDICATOR Smoking - Primary Prevention

CATEGORY Lifestyle

GENERAL DEFINITION The percentage of people without diabetes who currently smoke

cigarettes.

RATIONALE Smoking may have a role in the development of Type 2

diabetes. This lifestyle indicator provides information about the need for programs to promote smoking cessation among persons

who have not been diagnosed with diabetes.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the current 7

national objectives. Future objectives may include recommendations for the promotion of wellness, including smoking cessation, among persons at-risk for diabetes.

HP 2010 OBJECTIVE Objective 27-1: To reduce tobacco use by adults.

BASELINE Objective 27-1a: Twenty-four percent of

adults age 18 years and older smoke cigarettes (NHIS, age-adjusted, 1998).

TARGET Objective 27-1a: Twelve percent of adults

age 18 years and older smoke cigarettes.

Objective 27-2: To reduce tobacco use by adolescents.

BASELINE Objective 27-2b: Thirty-five-percent of

students in grades 9-12 smoked cigarettes in

the past month (YRBSS, 1999).

TARGET Objective 27-2b: Sixteen percent of students

in grades 9-12 smoking cigarettes in the past

month.

STANDARDS OF CARE • American Diabetes Association

DATA SUMMARY

RELATED LINKS • American Lung Association

(http://www.lungusa.org/)

• CDC Tobacco Information and Prevention Source

(http://www.cdc.gov/tobacco)

Healthy People 2010

(http://wonder.cdc.gov/data2010/focus.htm)

 Surgeon General Reports on Smoking (http://www.cdc.gov/tobacco/sgr/)

INDICATOR Smoking - Secondary Prevention in Adults

with Diabetes

CATEGORY Lifestyle

GENERAL DEFINITION The percentage of persons with diabetes who currently smoke

cigarettes.

RATIONALE Persons with diabetes are at increased risk of complications from

cardiovascular disease, such as stroke, angina, and congestive heart failure. Smoking tobacco further increases this risk. Smoking increases the risk of renal damage and is associated with worsening retinal disease, especially in young smokers. This lifestyle indicator provides information about the need for programs to promote smoking cessation among persons with

diabetes.

CDC

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

Indian Health Service

National Diabetes Quality Improvement Alliance

DDT NATIONAL OBJECTIVE This indicator links to the Division of Diabetes Translation (DDT)

National Objective to succeed in establishing linkages for promotion of wellness, physical activity, weight and blood pressure control and smoking cessation for persons with

diabetes.

HP 2010 OBJECTIVE This indicator is not directly linked with an HP 2010 objective.

STANDARDS OF CARE • American Diabetes Association

American Heart Association

DATA SUMMARY

RELATED LINKS • American Association of Diabetes Educators

(http://www.aadenet.org/)
• American Lung Association
(http://www.lungusa.org/)

• CDC Tobacco Information and Prevention Source

(http://www.cdc.gov/tobacco)

 Surgeon General Reports on Smoking (http://www.cdc.gov/tobacco/sgr/)

INDICATOR Unhealthy Days among Adults with Diabetes CATEGORY Diabetes-related Complications

GENERAL DEFINITION The percentage of persons with diabetes who report that they have

at least 15 unhealthy days in the past 30 days.

RATIONALE Persons with diabetes are at increased risk for complications that

result in lower extremity amputations, blindness, and other types of physical disability in addition to increased stress, depression, and emotional problems that may be associated with unhealthy days. This measure provides information about the prevalence of one potential intermediate outcome of uncontrolled diabetes.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE This indicator is not directly linked with an HP 2010 objective.

STANDARDS OF CARE

DATA SUMMARY • Health-Related Quality of Life --- Los Angeles County, California,

1999

• Health-Related Quality of Life --- Puerto Rico, 1996--2000

· Health-related quality of life data

Prevalence data

RELATED LINKS •CDC Disability and Health

(http://www.cdc.gov/ncbddd/dh/)

·Measuring Healthy Days - Population Assessment of Health-

Related Quality of Life

(http://www.cdc.gov/nccdphp/hrqol/pdfs/mhd.pdf)

•Notice to Readers: Publication of Report on Validation and Use of

Measures of Health-Related Quality of Life

(http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5004a4.htm)
•Prevalence of impairments, disabilities, handicaps and quality of life in the general population: a review of the recent literature (http://www.who.int/bulletin/pdf/2001/issue11/bu0467.pdf)

INDICATOR Visual Foot Exam (self or someone other

than health professional)

CATEGORY Diabetes Self-care

GENERAL DEFINITION The percentage of persons with diabetes who have checked their

feet for sores or had someone other than a health professional

check their feet for irritations.

RATIONALE Persons with diabetes are at increased risk of hospitalization,

morbidity, and mortality associated with lower extremity disease. Routine foot examination among persons with diabetes increases the likelihood of early identification of foot ulcers and, ultimately, decreases the risk of lower extremity amputation. This process measure provides information about diabetes self-

management.

ORGANIZATION(S)
RECOMMENDING THE

INDICATOR

CDC

DDT NATIONAL OBJECTIVE This indicator does not directly link to any of the 7 national

objectives.

HP 2010 OBJECTIVE This indicator is not directly linked with an HP 2010 objective.

STANDARDS OF CARE • American Diabetes Association

American Podiatric Medical Association

DATA SUMMARY • Diabetes Surveillance System

RELATED LINKS • Guide to Community Preventive Services

(http://www.cdc.gov/diabetes/projects/community.htm)
• Lower Extremity Amputation Prevention Program, Bureau of

 Lower Extremity Amputation Prevention Program, Bureau or Primary Health Care, Division of Programs for Special

Populations

(http://bphc.hrsa.gov/leap/)

 National Diabetes Information Clearinghouse (http://www.niddk.nih.gov/health/diabetes/ndic.htm)

 The American Podiatric Medical Association (http://www.apma.org/diabetes01pub.htm)